



## WITHIN OUR BORDERS



AN ALBERTA  
GOVERNMENT  
PUBLICATION

- Livestock Insurance
- Monoxide Study
- Master Farm Families
- Texts for Schools

OCTOBER, 1966

## Discuss Ways, Means To Raise Trade Levels

LEADERS IN GOVERNMENT and business in Alberta met informally recently to discuss where each could contribute toward expanding trade and business arrangements between provincial and western Canadian firms, and Japanese commercial opportunities. The meeting followed recent visits by Alberta government officials and Alberta business leaders to Japan.

There was an exchange of questions and answers between the Alberta businessmen and those who had visited Japan. There were explanations of Japanese industrial requirements and procedures, of comments on relationships between industry and government there as compared with those in Alberta, and some consideration of Japanese interests in locating industrial establishments here.

The gathering, while making no decisions nor coming to any agreements, served to acquaint those attending with the fine business opportunities, and possible difficulties that could arise without prior consideration, in future Alberta-Japan trade.

## Engine Power Jump Will Aid Fire Fight

A MAJOR ENGINE conversion program is planned to boost the power and high altitude performance of the three Alberta Forest Service helicopters. A new model engine plus a super-charger will give these machines consistent performance at various altitudes and consequently increase the efficiency and usefulness of the aircraft in fire suppression.

The change over is in line with Forest Service policy to increase its use of aircraft for fire suppression and for supply missions. Fully half of all 130 towers and lookouts in the province are now serviced from the air, either directly by helicopter, or by parachute from fixed wing aircraft.

One of the three machines replaces another which was destroyed by fire earlier this year, when a landing pad collapsed and a ruptured fuel tank ignited. No one was hurt in the incident.

# Carbon Monoxide Safety Study Planned for Alberta

A CARBON MONOXIDE Exposure Survey by mail through province-wide blood sampling will be undertaken during the winter by the Industrial Health Services Division of the Alberta Department of Public Health with the co-operation of Alberta Health Units. Industrial Health Services will supply Health Units with information cards, to which are attached small sample tubes that can be returned to the divisions Health Laboratory as the blood samples are collected. The main line of enquiry will be directed towards service stations, underground parking areas and other establishments where high carbon monoxide air content may be experienced.

"The haemoglobin of the blood stream absorbs carbon monoxide more readily than oxygen, thereby reducing the amount of oxygen available for bodily processes. When exposure has ceased, the carbon monoxide is only slowly released in the exhaled air, indicating that blood sampling is a better method of measuring the effect of carbon monoxide on personnel than spot checks taken at their place of work with external measuring devices. In the latter instance, readings are entirely dependent on the circumstances prevailing at that particular moment and can range from as high as several hundred parts per million to nil . . . Any change in ventilation, the opening of a window or door, will cause an immediate drop in the carbon monoxide level. Blood would retain its carbon monoxide content and even increase it should exposure continue shortly after. The blood sampling method will indicate the average exposure throughout a working day with much greater accuracy.

The Industrial Health Services Division has already made valuable investigations enabling industry to overcome health hazards. A significant proportion has been found to emanate from effects of carbon monoxide. For instance, stenographers in the business office of a chemical plant were experiencing nausea and headaches, causing management to fear that the cause lay in fumes from plant chemicals. When asked to investigate, the Industrial Health Division team discovered that faulty ventilation in the



Technician at Industrial Health Services laboratory adding dilute ammonia solution to blood sample while parts of the same sample are being saturated from oxygen and carbon monoxide bottles. Spectrophotometer (foreground) will then provide readings indicating carbon monoxide level present in sample.

central heating system was introducing carbon monoxide into the hot air supply.

Such investigations are essentially a team project combining the talents of a medical doctor, chemist and engineer. The current survey, completion expected in April 1967, is intended as the first step in an exploratory program on carbon monoxide poisoning that will have great value in preventing industrial health and accident damage by revealing aspects of the problem that have only recently become apparent.



# TWO SOUTHERN ALBERTA FAMILIES CHO



The Lionel Bird Family, from left to right, Sylvia, Mr. Bird, Sr., Mrs. Bird, Lionel Bird, Lillian and Grant.

**CLOSE FAMILY TIES**, understanding and application of agricultural principles, neighborliness and interest in community and national affairs, all combine to make the Lionel Bird family of the Carstairs-Cremona district deserving recipients of the 1966 Master Farm Family Award for west central Alberta.

The Bird farm program is very simple and very effective. Eight quarter sections of land are included in the rotation, each quarter section being treated as one field, with five quarters in grain and three in grass legume mixture. There has been no summerfallow on this farm for over ten years, but the clean, heavy crops signify the effectiveness of the program and the high level of seed and soil management. Commercial fertilizer is used heavily and regularly on all land, while the barnyard manure is used to improve problem areas. Recently, cereal crops have been limited to oats and barley. All of the trash, with the exception of the straw that is used for livestock, is worked back into the soil.

The livestock program consists of the purchase of beef calves in the autumn. They are

wintered on hay principally but a small amount of grain is fed if the hay is poor. The cattle are pastured the next year until autumn, then fed heavily for 100 days before market. The seeded pasture and much of the high quality hay is utilized by this program which also takes advantage of the non-arable land and the creeks that run through the farm. About 150 two-year-olds are marketed annually.

The Bird family is always searching for new techniques and methods of production. This is noticeable in their machinery, especially that which is used for haying. A swather-crimper cuts and windrows the hay, allowing early baling, and an automatic bale stacker is used for stacking. About 350 tons are given shed storage and the remainder is put up in the field. Hay is a very important source of farm income.

The farming program used by the Bird family has been developed to operate in one of the most severe hail belts in the province. The extensive haying program, together with high grain yields, provides a large feed reserve to take care of disaster years.

Records have been kept on the Bird farm for many years. They give a complete picture of the operation and have been used repeatedly and extensively to indicate changes that should be made. Mr. and Mrs. Bird do their own record keeping.

Both Mr. and Mrs. Bird come from pioneer families in the Cremona area. Mr. Bird, Senior, who homesteaded on the present farm in 1901 still has his own home within the farmstead.

The Bird home has long been recognized by the neighbors and the community as a centre of activities. Lionel and his wife are leaders in many organizations. He is presently the 4-H Club leader, a member of the local school board, Director of the Rural Telephone Board, Secretary of the Cremona Community Chest, Chairman of the United Church Board of Stewards and active in Little League Baseball. Mrs. Bird is Secretary of the Cremona Home and School, a member of the Cremona United Church Session, and of the Jackson Women's Institute of the United Church Women, as well as being a former Cub Leader. The Bird children, Sylvia, Grant and Lillian, have all been active in Young Peoples 4-H Clubs, athletics and school affairs. Sylvia, 20, is a Student Nurse at the Foothills General Hospital in Calgary. Grant, 17, was winner of the Centennial Student Exchange trip to Oshawa, and is president of the Cremona High School Students' Union. While he is interested in agriculture, he would like to complete his education, preferably University, before assuming any major responsibilities. Lillian, 15, has just completed Grade 9 with high standing.

A sixth member of the family is a Greek boy who has been adopted by the Bird family under the Foster Parents' Plan. Anthony Nikoloudakis was welcomed to the family in 1960. He has never seen Canada, but corresponds with his foster parents in English.

The Bird family has been, over the years, a strength and influence in their community. They are leaders in agriculture, innovators in practices and an outstanding example of the qualities that signify a true Alberta Master Family.

## Students in Many Lands Continue Schooling by Correspondence Course

**ALBERTA SCHOOL CHILDREN** scattered around the world can still keep up with their lessons through the Correspondence Branch of Alberta's Department of Education. More than one hundred have now registered for the 1966-67 year and the first completed assignments are expected to start arriving soon from Nigeria, Pakistan, Turkey, Japan and Mexico. These are only a few of the many foreign countries where Albertans in the armed forces or employed as engineers, construction workers, educators, missionaries, researchers and medical personnel live and endeavour to give their children as normal an education as possible.

The lessons by mail program of the Correspondence Branch are based on the Alberta curriculum for grades 1 to 12 and are designed so that students can fit into the school pattern on their return. A fee of \$15.00 a year is charged for the service which is available to all Canadian citizens and their families living outside Alberta or expecting to return to it. The student is sent

prepared lessons well in advance, with each lesson representing one week's work for the average pupil. To accustom the student to the routine of a regular school program day-by-day teaching techniques are used.

For grades 1 to 6 arithmetic, language, reading, literature, spelling, writing, social studies, enterprise, science, health and art are included in the weekly schedule of lessons and planned activities. In the junior high school program, the six basic subjects of language, literature, mathematics, social studies, health and science are covered as well as 1 elective course offered to grades 7 and 8 and two elective courses for grade 9. Senior high school grades follow a general high school pattern or preparation for university entrance and choose from a wide range of subjects. At the end of each week's lesson the student is asked to return assignments for correction, and this same pattern is followed for those taking correspondence courses within the province as well.

After completing and returning five sets of lessons (representing 25 full school days) to the Branch for marking, each student is given a grading and at the end of the school year receives a promotion certificate signed by the director of the Branch if successful in the assigned work. Also included in the lesson books are questionnaires and progress reports for the parent and child to complete and return. Parents are also encouraged to write to the teacher if there are any questions about the child's progress.

A staff of approximately 110 teachers is maintained in the offices of the Correspondence Branch in Edmonton and they are encouraged to take a personal interest in their 'pupils by mail.' Alberta students living in foreign countries receive a letter once a month from their teachers in the Branch and an annual book-size newsletter prepared by teachers for the Elementary grades 1 to 6. The popular newsletter includes poetry and pictures, colorful drawings and letters from the children about life in the hot jungle of Guiana, or a construction project in Pakistan, or a trapezine in the Northwest Territories. There is a frequent exchange of letters, birthday cards, photos and often drawings between parent and teacher and child and teacher. On returning to Alberta, the students and their families frequently visit the Branch and their 'mail-order teacher.'



# WINNERS 1966 MASTER FARMERS AWARDS

FARMING 2,200 ACRES is big business and, for the Jensens of Standard, it is a family business that has brought them recognition as the Master Farm Family for Southern Alberta. Every member, Elmer and Mrs. Jensen, daughters Ellen Anne and Charlotte, and sons Jack and Dallas, contributed liberally to the winning of the award by participating fully in the operation of the farm.

The Jensen farm lies in an area that is generally dry. Approximately two thirds of the land is in crop, with one third in fallow, a ratio which is adjusted on the basis of tests for soil moisture in the spring. The crop is pushed by the liberal use of fertilizer. Conservation of soil by use of trash cover and barnyard manure is a regular practice. New crops such as peas for seed, or tall wheat grass to utilize alkali flats, are tested on a limited scale and, if satisfactory, expanded to fit into the overall cropping program. Sprinkler irrigation can be used on a limited acreage and provides insurance against drought.

Co-ordinated with the field program is the excellent grade herd of over fifty Angus cows. A cow-calf operation utilizes the nonarable land while irrigation on hayland assures high quality roughage either for hay or pasture as required. The calves raised at home are augmented by purchased feeders to utilize feed supplies and provide a profitable use of winter labour. Chaff, which would otherwise be waste material, is salvaged with a line of collecting and handling equipment. Feed analysis is used regularly to assist in balancing rations at the least cost. Balanced rations are largely responsible for the excellent calf crop and the high returns from the hundred-odd finished cattle turned off annually.

The well-balanced line of farm and farmstead machinery is completely serviced at home. Much of the work is done by the oldest son, Jack, who studied farm mechanics at the Southern Alberta Institute of Technology.

The keeping of records plays an important part in the operations of the Jensen farm and books showing the complete breakdown of yields, costs and returns have been kept for many years



*The Elmer Jensen Family, seated, Elmer and Mrs. Jensen. Standing, left to right, Ellen Anne, Jack, Dallas and Charlotte.*

by Mrs. Jensen. Recent analysis of these accounts have indicated strengths and weaknesses for which programs have been developed to take advantage of the potentials indicated. The Jensens have given leadership and actively encouraged neighbors to participate in the farm management program in the area.

The recently remodelled home is the hub of all farm activities, as well as a social and community centre. Along with the rest of the farmstead, it is protected by shelter-belts and attractively landscaped.

The Jensen family is active in a variety of community affairs. Mr. Jensen is president, and former secretary, of the F.U.A. local, past president of the Lions Club, assistant leader in the 4-H Beef Club, director of both the Rural Elec-

trification Mutual and the Telephone Mutual. Both Mr. and Mrs. Jensen have taken a Civil Defence course and both have been leaders in local church affairs. In 1965, they received an award tour to the Pacific North West as representatives of F.U.A. District Ten.

The four children have all been active in 4-H, students council, Girl Guides or Boy Scouts and junior church groups. Jack, at 22, has decided to farm and has a partnership arrangement with his father. The others, all younger, are continuing with their education.

Balance between family and farm activities, civic, community and church interests, and leadership in all, are reasons why the Jensen family of Standard are a welcome addition to the ranks of the Alberta Master Farm Families.

## Livestock Loss in Hunting Season Is Now Insured Under New Rulings

NEW WILDLIFE DAMAGE Fund regulations, which came into effect in time for the 1966 hunting season, permit persons whose livestock is shot on lands when and where hunting is authorized, to apply for restitution from Alberta Wildlife Damage Fund. Valid claims for compensation from wildlife crop damage will continue to be paid from the fund.

This year, hunters will pay two dollars for their Wildlife Certificates. The money goes into the Wildlife Damage Fund, and the certificates become hunting licences when appropriate game stamps are affixed. Last year, the certificates cost one dollar. Nearly 119,000 were sold. Certificates and stamps may be obtained from vendors authorized by the Fish and Wildlife Branch of the Alberta Department of Lands and Forests.

In order to be eligible for compensation from the fund, death or injury to livestock must be reported within three days of discovery to the nearest R.C.M.P. detachment. An application for compensation must be filed on a form provided at R.C.M.P. and Fish and Wildlife offices. This must be forwarded, together with a copy of the R.C.M.P. investigation report concerning

the loss, to the Director of Fish and Wildlife.

The claimant is also required to submit a statutory declaration identifying himself, his place of business and location of the incident of livestock loss. Value of livestock injured or killed, salvage value if any, and the amount of compensation claimed are required on the declaration as well.

If the person causing the loss is known, he should be identified, and any steps taken to recover compensation from him outlined.

The declaration shall be accompanied by a certificate signed by two local ratepayers, stating their valuation of the livestock for which compensation is claimed. On acceptance of a validated application, the amount of compensation may in no case exceed 80 per cent of average market value.

The Minister of Lands and Forests has final authority in the settlement of all such claims. He shall consider every application as soon as possible after it has been received, and he may accept or reject any application. Amounts of payment, when granted, shall be based on current market prices for livestock.

A person whose crops are damaged by wildlife may claim compensation from the Wildlife Damage Fund by submitting a damage claim form to the nearest agent of the Alberta Hail Insurance Board. The claimant must pay to the agent an appraisal fee of \$25 for every quarter section with a crop for which compensation is claimed.

The damage claim form must show the name and address of the claimant, the kind of crops, the number of acres of each kind of crop, and the legal description of the parcel or parcels of land upon which the crop is grown. The person or persons to whom compensation would be paid must also be listed. All damage claim forms must be submitted before November first of the year the crop was grown.

All claims are to be considered by the Alberta Hail Insurance Board as soon as possible after they are received. The Board has full power to accept or reject these claims, and the decision of the Hail Insurance Board concerning the payment, and the amount, of any compensation claimed against the fund for wildlife damage, is final and conclusive.

The amount of compensation shall not exceed \$15 per acre, or an amount equal to one-half of the commercial value of the crop per acre, whichever is lowest. For the purposes of these regulations, "wildlife" means those animals and birds defined as big game and game birds under the Game Act.



# Thousands of School Textbooks Shipped by Government Branch

SCHOOL BOOK SALES of \$3.5 million, realized by the School Book Branch of the Alberta Department of Education last year, are expected to go even higher in 1966 with a record of 770 tons of books already distributed to Alberta school districts and book dealers throughout the province.

From April to September, an average of three car load lots a week arrived by rail at the Book Branch warehouse and many thousands of pounds more by truck and mail in preparation for the annual school influx of an estimated 370,000 students. During this period, the 40-member staff of the School Book Branch and the two book stores it maintains at the Northern and Southern Alberta Institutes of Technology, was

increased to 84 to handle the necessary book purchasing, invoicing, sorting, shelf loading, packaging and mailing.

School books are shipped to all areas of the province as well as federal schools in the North West Territories which follow the Alberta curriculum. By June 15 all books ordered for northern community schools were on their way by truck from the Book Branch warehouse in Edmonton to continue by barge up the Mackenzie River to many northern points. In order to withstand all kinds of weather conditions on the long trip, the books were shipped in heavy wooden crates lined with corrugated craft paper and then strapped with wire tape. Even the labels were wrapped in polythene for protection.



Two members of the School Book Branch warehouse operation prepare another order for shipment.

One of the special services of the Branch is a rental textbook plan, as most school boards in Alberta rent books to students or provide them at a reduced rate. In this program the school boards are given a 40% discount on all books purchased for rental and last year sales in this area represented 41.6% of Book Branch sales.

Another special service of the Book Branch is the preparation of a 'Reading for Pleasure' series of individual catalogues graded for elementary schools and junior and senior high schools. The catalogues now include 1,786 titles either stocked or obtainable on special order by the Branch and offered at 15% discount for school use. This year 228 new titles were added to the catalogues which briefly describe each book and alphabetically list authors and titles. The leisure reading series are primarily for use in school libraries and the Alberta School Book Branch is the only text book bureau in Canada to supply this service.

The Book Branch has been in operation since 1914 when it was known as the School Libraries Branch supplying books to school libraries. In 1926 it went into the text book field and later changed its name to the School Book Branch. Today, there are administrative offices, a warehouse and two book stores. Special arrangements are also made with 89 book dealers throughout the province to sell school books at prices set by the Branch, which are as low as operating costs will allow. In this way uniform prices are maintained in the province and a book in Spirit River sells for the same price as in Calgary.

"Within Our Borders" is a publication designed to acquaint the people of the Province with the administration of the Alberta Government.

There are no restrictions in the republishing of any material but a credit line would be appreciated.

Notice of change of address should be accompanied by the mailing address on the front of this issue. No charge is made for "Within Our Borders" and new readers are invited to forward their name and address to "Within Our Borders," Room 245, Highways Building, Edmonton.

AUTHORIZED AS SECOND CLASS MAIL, POST OFFICE DEPARTMENT, OTTAWA AND FOR PAYMENT OF POSTAGE IN CASH.

## Coming Events

During the coming year Alberta will be the scene of many events of provincial, national and international interest. Within Our Borders is pleased to list these in its Coming Events column. Information should be forwarded to Within Our Borders, Room 245 Highways Building, Edmonton.

### OCTOBER

1-2	Edmonton Sporting Dog Club — Fall Trial	Edmonton
2-6	Canadian Chamber of Commerce Convention	Edmonton
3-4	Alberta Municipal Vehicles and Equipment Association Convention	Calgary
5-9	National Field Trail	Edmonton
7-9	Alcoholics Anonymous Convention	Edmonton
8	6th Canadian Field Regiment Association Annual Reunion	Calgary
11	Annual Marshall Tory Lecture	Edmonton
13	Jubilee Day — S.A.I.T.	Calgary
14-16	Camrose Lutheran College Home-Coming	Camrose
15-16	Edmonton Symphony Society Concert	Edmonton
17-18	National Conference on Centennial	Edmonton
17-19	Canadian Restaurant Association — "Hospitality Show"	Calgary
17-22	Association of Mouth and Foot Painting Artists	Edmonton
18-19	Semi-Annual Meeting Provincial Chapter of Alberta I.O.D.E.	Red Deer
20	Nurses' Graduation Exercise — Royal Alexandra Hospital	Edmonton
21-22	Edmonton Opera Association — Puccini's Opera Tosca	Edmonton
23	Edmonton General Hospital School of Nursing — Nurses' Graduation	Edmonton
23-30	United Nations	Edmonton

24	University of Alberta Hospital — Nurses' Graduation Exercises	Edmonton
25	Misericordia Hospital School of Nursing — Nurses' Graduation	Edmonton
26	Chamber Music Society Concert	Edmonton
27-28	Alberta Teachers' Association — 1st Edmonton District	Edmonton
28-29	Bench Show of the Hanna District Agricultural Society	Hanna
29	Alcoholism Conference	Red Deer
31-Nov. 4	Annual Fall Livestock Show	Edmonton

### NOVEMBER

1-2	Car Show (Red Deer Arena)	Red Deer
1-4	Union of Alberta Municipalities Annual Convention	Red Deer
3-4	Labour Management Conference	Edmonton
7-8	41st Annual Meeting and Convention of Insurance Agents' Association of Alberta	Calgary
9-10	Alberta Teachers' Association 4th Edmonton District	Edmonton
11-13	Western Regional Cerebral Palsy Conference	Calgary
13-14	Championship Dog Show	Red Deer
18-19	Annual Convention — Alberta Aviation Council	Edmonton
21-26	Annual meeting of the Canadian Heart Foundation and the Canadian Cardiovascular Society	Calgary
23-25	46th Annual Convention of the Civil Service Association of Alberta	Edmonton